



Release 3000

CONTACT OUR HEADQUARTERS

+41 (0)32 344 75 00

Founded in 1943, Posalux is a leading manufacturer of micro-technology machines intended for mass production. From our headquarters in Biel, Switzerland, we engineer and produce world-renowned system solutions.

Our clients are distinguished companies leading the automotive, electronic, watch, and medical industries. Thanks to our global network of Posalux branches and agents, we are able to provide reliable services and support to our customers worldwide.

Notes:



www.posalux.com
sales@posalux.com



• FP1

FP1

DESIGNED FOR MASS PRODUCTION

- Mass production one spindle Milling machine
- Dedicated to a milling process in hard materials up to 67 HRC / 900 HV
- High productivity
- Vibration reduced process due to innovative spindle design
- Dry machining technology
- Suction system for extracting waste chips
- Cutting force optimized
- Designed for production's cell integration
- Siemens 840 D

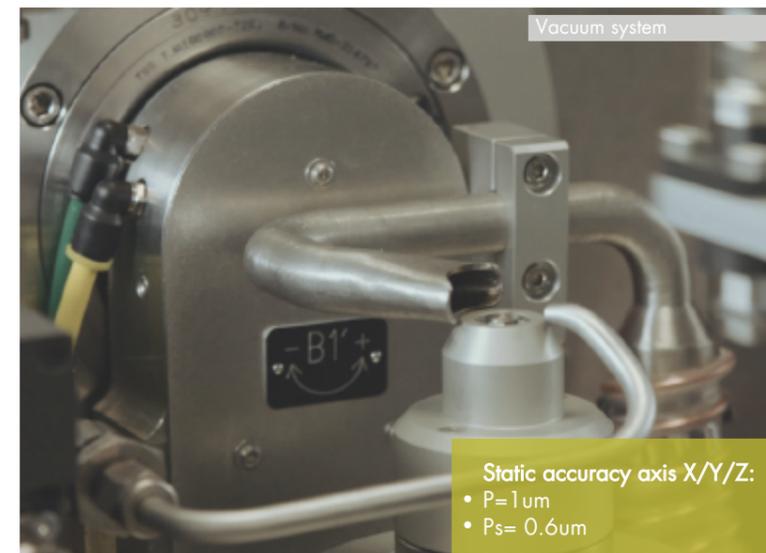
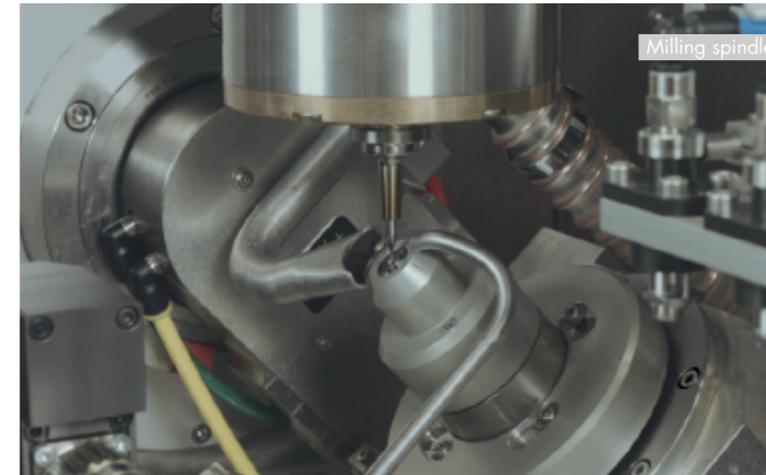
MICRO MACHINING CHARACTERISTICS

- 5 axis machine for drilling and milling process
- Axis strokes:
 - Axis X: 300 mm
 - Axis Y: 300 mm
 - Axis Z: 70 mm
 - Axis B: 0..90°
 - Axis C: 0..360°



Milling spindle

- Air bearing spindle
- Rotation up to 60'000 rpm (optional 100'000 rpm)
- Increased tool life (up to 5'000 holes)
- Oil free and grease free operations
- Tool holder HSK E25 balance quality G0.1

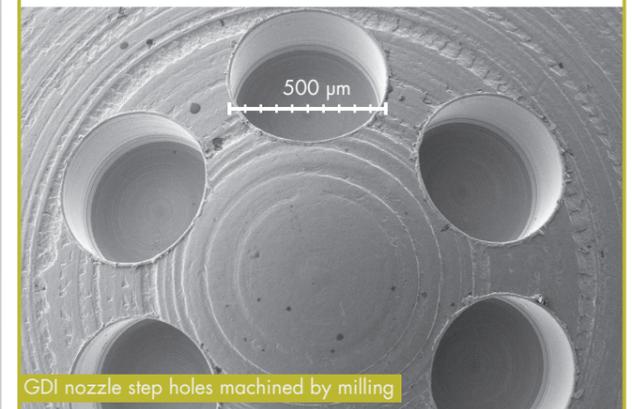


- Static accuracy axis X/Y/Z:
- P=1µm
 - Ps= 0.6µm

- Static accuracy axis /B/C:
- P +/- 0.04 deg
 - Ps +/- 0.02 deg

Micro-Machining

- Milling Ø 0.1-2 mm (typical for stephole 0.3-0.6 mm)
- High positioning accuracy
 - Accuracy for milling X/Y/Z +/- 20 µm
 - Accuracy for drilling X/Y/Z +/- 10 µm
- High productivity
 - Milling time per hole < 0.8 s
 - Cycle time per workpiece (8 holes) < 13 s (e.g. for Step holes milling in 1.4112 , 64 HRC, dia. 500µm, thickness 0.3 mm)
 - Zero touch detection
 - Depth control +/- 10 µm



GDI nozzle step holes machined by milling



Design of complete production solution

- Automatic loading/unloading specific solutions
- Tools holder with 12 tools
- Tool break control
- Tool Ø and length control
- Cooling by cold air nozzle
- Optional lubrication by microjet (mixture air-oil)
- Integrated deburring station

Based on our profound experience in automotive applications we provide solutions for all high-end micro drilling needs

Quality

Custom devices and support

MILLING
micro-machining

